

Lot No.: **7H3**

Olerup SSP® HLA-C*04

Product number: 101.612-12 – including *Taq* polymerase
101.612-12u – without *Taq* polymerase
Lot number: 7H3
Expiry date: 2022-01-01
Number of tests: 12
Number of wells per test: 63+1

CHANGES COMPARED TO THE PREVIOUS HLA-C*04 LOT (0F2):

Well	5'-primer	3'-primer	rationale
16	Added	-	5'-primer added for improved yield of the C*04:17 allele.
19	-	-	Exchanged positive control primer pairs for improved HLA-specific amplification.
54	-	Added	3'-primer added for improved resolution of the C*04:27 allele.
64	-	-	Exchanged negative control.

THE NUMBER OF WELLS is unchanged.

ALLELE COVERAGE:

C*04:01 to C*04:375, i.e. all the currently recognized HLA-C*04 alleles, will be amplified by the primers in the HLA-C*04 kit ¹; www.ebi.ac.uk/imgt/hla, 2016-April-17, release 3.36.0.

The HLA-C*04 kit enables separation of the confirmed HLA-C*04 alleles as listed in the IMGT/HLA database 3.26.0. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources.

The HLA-C*04 kit also enables identification of many null and alternatively expressed alleles.

The following HLA-C*04 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*04:05, 04:112	6	C*04:61, 04:96	34
C*04:20, 04:238	19	C*04:62, 04:76	35
C*04:23, 04:38, 04:39	21	C*04:65, 04:72	33
C*04:25, 04:41	23	C*04:67, 04:93N, 04:187	46
C*04:44, 04:47	20	C*04:79, 04:113	39
C*04:46, 04:50	27	C*04:81, 04:88N	43
C*04:54:01, 04:105N, 04:313:01:01-04:313:01:02	41	C*04:114, 04:146	47
C*04:56, 04:64:01-04:64:02	40	C*04:139, 04:226	22
C*04:59Q, 04:78	32	C*04:150, 04:155	52

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¹Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page <http://hla.alleles.org/alleles/deleted.html>.

RESOLUTION IN HLA-C*04 HOMO- AND HETEROZYGOTES:

Good.

INFLUENCE ON THE INTERPRETATION OF HLA-C*04 SUBTYPINGS BY NON-HLA-C*04 ALLELES:

None frequently occurring.

MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:

In primer mix 16, a 5'-primer has been added for improved yield of the C*04:17 allele.